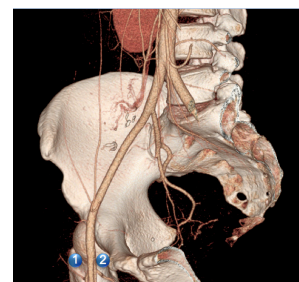


Beth Israel Deaconess  
Medical Center



HARVARD MEDICAL SCHOOL  
TEACHING HOSPITAL

# Department of Radiology: Cardiothoracic Imaging Fellowship Program



Abdominal Imaging • Body MRI • Breast Imaging • Cardiothoracic Imaging • Musculoskeletal Imaging • Neuroradiology

Department of Radiology  
Beth Israel Deaconess Medical Center  
330 Brookline Ave., TCC-4  
Boston, MA 02215

# Program Overview

Our department prides itself on being supportive of its fellows and places strong emphasis on the quality of teaching on a person-to-person basis. Please see our website:

<http://www.bidmc.org/MedicalEducation/Departments/Radiology/Fellowships.aspx>

## Departmental

Daily didactic morning conferences are held for the residents. The fellows are welcomed to attend these conferences as their schedule permits. Department faculty, residents and fellows provide most didactic lectures, with frequent lectures from outside HMS faculty, past residents, as well as guest lecturers from around the world. Visiting professors from other major teaching centers in the United States and abroad spend varying periods of time in the Department. Some have taken sabbatical leave at the Beth Israel Deaconess Medical Center.

## Medical Center

Radiology also has a close working relationship with a number of clinical services outside our department, which allows Radiology to participate in a number of management conferences, including Medical Management, Melanoma Management and Urology Management, as well as Chest, Pancreaticobiliary, and Liver conferences; Medical Grand Rounds, Surgical Grand Rounds, and others.

## Boston

There are many great medical conferences sponsored not only by Harvard-affiliated programs, but also by a number of other medical centers. The monthly New England Roentgen Ray Society meeting is one of the more popular Radiology meetings that also includes a special program for residents and fellows. Seminars and lectures in radiology are also held at adjacent Harvard-affiliated hospitals which include the Brigham and Women's Hospital and Boston Children's Hospital.

## Current Radiology Fellowships\*:

- Abdominal Imaging
- Body MRI
- Breast Imaging
- Cardiothoracic Imaging
- Musculoskeletal
- Neuroradiology

## \*Interventional Radiology:

Due to the creation of the integrated and independent IR residency programs, the vascular and interventional radiology fellowship program is no longer accepting applications for matriculation.

For more information:

<https://www.bidmc.org/medical-education/medical-education-by-department/radiology/residencies-in-radiology/interventional-radiology-integrated-pathway-residency>



# Cardiothoracic Imaging

Non Match Programs	Timeline	Important Dates
*Interview Embargo Dates	Interviews may begin	December 1
	Interviews completed	March 31
Acceptance Embargo Date	No fellowship may offer acceptances before this date	December 1

**\*Exception:** Internal candidates, international candidates, military candidates, and spouses are excluded from the embargo date timeline

## Overview

This one-year fellowship provides involvement in clinical, educational and research thoracic imaging activities and provides excellent preparation for a career in academic radiology or private practice.

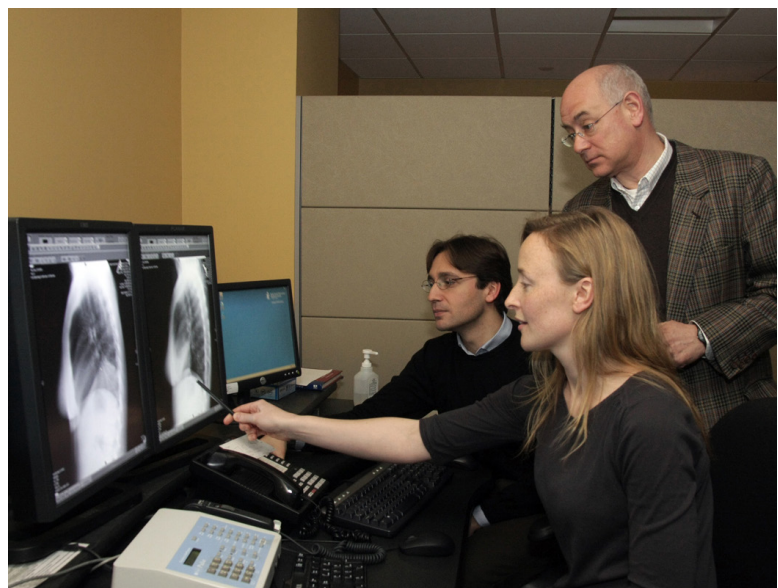
The division of Cardiothoracic Imaging at BIDMC and Harvard Medical School has been at the forefront of recent advances in thoracic imaging from both clinical and research perspectives and provides a strong academic environment for fellowship training. Our fellows are involved in all aspects of clinical thoracic imaging under the supervision of the program director and the thoracic imaging faculty. Additionally, our fellows receive mentoring, academic time, and support for teaching and research activities. Our fellows are exposed to the full spectrum of cardiothoracic disorders and a variety of diagnostic imaging methods, including CT angiography, high-resolution chest CT, functional imaging, and state-of-the-art 3-d reconstruction techniques and post-processing methods. Dedicated time (2 months, plus an additional 3rd month on an elective basis) is also provided for fellows to spend in the Cardiovascular Imaging Section, providing training and clinical experience in state-of-the art imaging of the heart and vascular system using CT and MRI.

Departmental resources include: 7 CT scanners (including 64-slice and 320-slice multidetector CT scanners and a CT-fluoroscopy unit), 3 DR units, 8 MR scanners (including 1.5-T and 3.0-T clinical and research units), an integrated PET-CT scanner, a fully implemented PACS system, two 3-D imaging labs, and two state-of-the-art, ergonomically-designed chest reading rooms.

The thoracic imaging section is comprised of 6 faculty members with a diversity of interests spanning all facets of cardiothoracic imaging. Our faculty members include experienced clinicians and researchers, award-winning educators, and editors of general radiology and subspecialty journals.

## Section Overview and Clinical Activities:

Under the direction of **Dr. Alexander A. Bankier**, Section Chief, members of the division contribute collaboratively to its clinical, teaching, and research missions. Leadership within the section is shared and includes the following roles:



**Dr. Alex Bankier**, Director of Respiratory Functional Imaging and former President of the Fleischner Society, leads the research activities of the section; **Dr. Paul Spirn** is the QA officer of the section; **Dr. Ron Eisenberg** oversees resident education and also serves as the liaison for resident QA projects; **Dr. Diana Litmanovich** is Director of the Cardiothoracic Imaging Fellowship Program and Director of Cardiac CT, a multidisciplinary program in collaboration with cardiology. In 2017, **Dr. Pritesh Mehta** joined the section following completion of his fellowship training at BIDMC. The most recent member of the section, **Dr. Ritu Gill** brings her expertise in thoracic oncology research. The section interprets more than 80,000 exams per year and is recognized for providing timely and expert interpretation of cardiothoracic imaging studies with a service-oriented approach to referring clinicians, as evidenced by its participation in a variety of multidisciplinary conferences. Several of our faculty members also interpret studies for our community sites and/or for other sections. Led by Dr. Bankier, BIDMC is a pioneer in CT lung cancer screening and was one of the study sites of the National Lung Cancer Screening Trial (NLST), a multicenter trial that was the breakthrough for CT lung cancer screening.

### Teaching:

The section takes pride in its educational activities, which span from local to international. The section holds a variety of teaching conferences for residents and fellows. Several faculty members are recipients of awards for teaching and mentoring. Most recently, **Dr. Paul Spirn** is consistently recognized by the department's Award for Excellence in Teaching. Faculty members also have several educational leadership roles. **Dr. Alex Bankier** is Director of the Resident Scholar's Track Program and **Dr. Ron Eisenberg** is Co-Director of the Resident Mentoring Program. Nationally, **Dr. Diana Litmanovich** is the Director of the Thoracic Case-based Refresher Course at RSNA. In recent years, the section has also been increasing its international educational mission through visiting international fellowships and professorships. Section members have also lectured at Harvard CME courses and meetings of the ARRS, RSNA, STR, NASCI and ECR, among others. Section members have also served as lead authors or editors for several recently published textbooks, including, *Clinical Imaging: An Atlas of Differential Diagnosis*, 5th Ed (Eisenberg), *Imaging of Diseases of the Chest*, 5th Ed (Bankier), *Medical Imaging: What You Need to Know* (Eisenberg). The section has also been recognized for its mentoring of residents and fellows in educational and research projects. Drs. Ron Eisenberg and Alex Bankier have mentored numerous residents and fellows in authoring publications in the popular "Pattern of the Month" series in the Resident's Section of AJR. Our fellows have also successfully presented educational and research projects at local, regional, and national meetings and first-authored numerous original research, review papers and book chapters.

### Research:

The section has a very active research division that is directed by **Dr. Bankier**, who runs a successful weekly research meeting that includes both didactic sessions and work-in-progress presentations. The section is a recognized leader in several areas of investigation, including: airway imaging, emphysema, functional imaging, radiation dose reduction, imaging of pregnant patients, and outcome/utilization studies. Section members have published numerous articles in highly regarded peer-reviewed journals in the past year and have presented abstracts at the RSNA, ARRS, ECR, and STR meetings. Several faculty members also play important editorial roles for several radiology journals, including Dr. Bankier as Deputy Editor of Radiology, Dr. Litmanovich as Deputy Editor of the Journal of Thoracic Imaging, and Dr. Eisenberg as Special Consulting Editor for AJR.

## Applying

Applications are being accepted for the academic year 2020-2021 as of April 10, 2018. Please send (3) letters of recommendation (with one letter being from your residency director), CV, personal statement, and application form to:

### **Samantha Sarblah**

Program Coordinator,  
Residency & Fellowship Programs  
Department of Radiology  
Beth Israel Deaconess Medical Center  
330 Brookline Avenue, Sherman 231  
Boston, MA 02215

T: 617-667-3524 | F: 617-667-3513  
[ssarblah@bidmc.harvard.edu](mailto:ssarblah@bidmc.harvard.edu)



### *Please note:*

All applicants (both US and foreign graduates) must have taken and passed:

- USMLE Step 1
- Step 2 CK
- Step 2 CS

in order to be considered for an interview.

Foreign Medical Graduates (FMGs) are required to have obtained ECFMG certification in order to be considered for an interview.



# CARDIOTHORACIC IMAGING FACULTY



Alexander A. Bankier, MD PhD

Director, Cardiothoracic Imaging Section  
Director, Respiratory Functional Imaging, BIDMC  
Professor of Radiology, Harvard Medical School

## Fellowships

Centre Hospitalier Universitaire Lille, Frankreich  
Hopital Calmette Service de Radiologie, Lille,  
France 1994

MRI Research, BIDMC 2001

## Residency

Radiology, University of Vienna, Vienna, Austria  
1997

## Internship

Internal Medicine  
Evangelisches KH; KH Rudolfstiftung, Vienna  
1991

## Medical School

MD - University of Vienna, Vienna, Austria 1990  
PhD - Transplantation Medicine  
University of Brussels, Belgium 2011

## Academic Accomplishments

Deputy Editor, RADIOLOGY 2007-  
RSNA Honored Educator 2013, 2014, 2015

**Contact:** [abankier@bidmc.harvard.edu](mailto:abankier@bidmc.harvard.edu)



Diana E. Litmanovich, MD

Staff Radiologist, Cardiothoracic Imaging  
Director, Cardiac Imaging  
Director, Cardiothoracic Imaging Fellowship, BIDMC  
Associate Professor of Radiology, Harvard Medical School

## Fellowship:

Thoracic Imaging, BIDMC, Boston 2007

## Residency:

Diagnostic Radiology  
Rambam Medical Center, Haifa, Israel 2005

## Internship:

Internal Medicine and Surgery,  
Rambam Medical Center, Haifa, Israel 1999

## Medical School:

Technion Medical School, Haifa, Israel 1999

## Academic Accomplishments

Director, HMS Longitudinal PCE Radiology  
Course at BIDMC, Boston, MA

**Contact:** [dlitmano@bidmc.harvard.edu](mailto:dlitmano@bidmc.harvard.edu)



# CARDIOTHORACIC IMAGING FACULTY



Ronald Eisenberg, MD, JD

Staff Radiologist, Cardiothoracic Imaging  
& Musculoskeletal Imaging Sections, BIDMC  
Professor of Radiology, Harvard Medical School

## Fellowship:

Magnetic Resonance Imaging,  
University of California School of Medicine,  
San Diego, CA 1987

## Residency:

Diagnostic Radiology,  
University of California, San Francisco, CA 1975  
Diagnostic Radiology, Massachusetts General  
Hospital, Boston, MA 1971

## Internship:

Mount Zion Medical Center, San Francisco, CA  
1970

## Medical School

University of Pennsylvania School of Medicine,  
Philadelphia, PA 1969

## Academic Accomplishments:

JD in Law, William Howard Taft University School  
of Law, Santa Ana, CA 1996

The author of 19 books in radiology, Dr.  
Eisenberg has specialized in interpreting large  
volumes of conventional radiographs.  
As a non-practicing attorney and member of  
the California Bar, he has authored a book on  
radiology and the law. He has completed a  
doctoral degree in Jewish Studies and is the  
author of 6 published books in that field.

**Contact:** [rleisenb@bidmc.harvard.edu](mailto:rleisenb@bidmc.harvard.edu)



Ritu Gill, MD, MPH

Staff Radiologist, Cardiothoracic Imaging , BIDMC  
Director, Medical Student Education Program in Radiology  
Assistant Professor of Radiology, Harvard Medical School

## Fellowships:

Cardiothoracic Radiology,  
Brigham and Women's Hospital, Boston, MA 2005  
Oncoradiology,  
Dana Farber Cancer Institute, Boston, MA 2004

## Residency:

Radiodiagnosis  
Barnard Institute of Radiology and Oncology,  
Madras Medical College, Chennai, India 2001

## Internship:

Medicine and Surgery, Government Medical  
College and Hospital, Amritsar, India 1995

## Medical School:

MBBS (Bachelor of Medicine and Bachelor of  
Surgery), Government Medical College, Amritsar,  
India 1996

## Additional Postgraduate Training:

MPH in Clinical Effectiveness, Harvard School of  
Public Health, Boston, MA 2012

## Clinical Interests:

- Building prognostic models to stratify survival  
in Chest malignancies
- 3D and 4D imaging
- 3D modeling and printing

**Contact:** [rgill@bidmc.harvard.edu](mailto:rgill@bidmc.harvard.edu)

# CARDIOTHORACIC IMAGING FACULTY



Pritesh Mehta, MD

Staff Radiologist, Cardiothoracic Imaging  
and Neuroradiology Sections  
Associate Director, Radiology Residency Program  
Instructor in Radiology, Harvard Medical School

Fellowship:

Neuroradiology, BIDMC, Boston, MA 2017

Residency:

Diagnostic Radiology (+ Minifellow in MSK  
Radiology), BIDMC, Boston, MA 2016

Internship:

Internal Medicine, Brigham & Women's Hospital,  
Boston, MA 2012

Medical School:

Case Western Reserve University  
School of Medicine, Cleveland, OH 2011

**Contact:** [pmehta@bidmc.harvard.edu](mailto:pmehta@bidmc.harvard.edu)



Paul Spirn, MD

Staff Radiologist, Cardiothoracic Imaging Section, BIDMC  
Assistant Professor of Radiology, Harvard Medical School

Residency:

Diagnostic Radiology, Massachusetts General  
Hospital, Boston, MA 1980

Internship:

Internal Medicine, University of Pennsylvania  
Health Systems, Philadelphia, PA 1977

Medical School:

University of Pennsylvania School of Medicine,  
Philadelphia, PA 1976

Academic Accomplishments

Director, Quality Assurance for Thoracic Imaging,  
Department of Radiology, BIDMC 2008-

**Contact:** [pspirn@bidmc.harvard.edu](mailto:pspirn@bidmc.harvard.edu)